



PHYSICAL CARD TEST REPORT
REPORT PRODUCED FOR JOB Q29924
SET 8

TO: AMERICO RODRIGUEZ
JUNTA CENTRAL ELECTORAL
AV 27 DE FEBRERO ESQ LUPERON
ZONA INDUSTRIAL DE HERRERA
SANTO DOMINGO, 11113
DOMINICA

TEST COMPLETED BY ANDREW VONEIDA September 27, 2013
REPORT COMPLETED BY TERRY SCHINDLER October 7, 2013

Q-CARD Laboratories
301 Reagan St.
Sunbury, PA 17801
570-286-7447
www.q-card.com

PRINTED CARDS - FRONT

Test No. 5

CARD TESTING FOR SURFACE ABRASION

Per ANSI/INCITS 322-2008, Section 5.9

Card ID#	Stop Cycles	ANSI 440 CLASS
Card SSP	2000	D5

Test No. 6

CARD TESTING FOR DELAMINATION - 90°

Per ANSI/INCITS 322-2008, Section 5.2

Card ID#	P1	Side Front/Back
	Minimum Peel Force 35N/mm	
Card SSP	Pass	Front

Test No. 7

CARD TESTING FOR DELAMINATION CROSS HATCH TAPE

Per ANSI/INCITS 322:2008, Section 5.3

Card ID#	Scale Rating	Rating Meaning	
Card SSP	5	No Adhesion	Pass

Test No. 8

CARD TESTING FOR DAYLIGHT EXPOSURE IMAGE STABILITY-XENON ARC

Per ANSI/INCITS 322:2008, Section 5.16

Card ID#	Side Exposed	Observation	Result
Card SSP	Front	No Change	Pass

Test No. 9

CARD TESTING FOR CORNER IMPACT RESISTANCE

Per ANSI/INCITS 322:2008, Section 5.20

Card ID#	CORNER A	CORNER B	CORNER C	CORNER D	Visual Note
Card SSP	N/A	N/A	Fail	Fail	Broke/Delamination

Handwritten signature and date: 10/10/13

10/10/12
fn

ANNEX A

PRINTED DATA ARCHIVE

Customer Name: Junta Cental Electoral

Job #: Q29924-SET8

Card Testing for Surface Abrasion (Backside)

Sampled By: ADV
 # of Samples Tested: 1
 Technician: ADV
 Time: 1:10 PM
 Date: 9/13/2013
 Temperature: 23.2 C
 Relative Humidity: 46%

Calibration Verified: ☒ Valid Until: 3/14

Card ID#	Drop Cycles	ANSI 440 CLASS
Card S8P	4750	D5

Job Notes:

[Handwritten signature]
9/10/13

Job # _____ Customer Name: Junta Central Electoral

Q29924-SET8

Card Testing for Xenon Arc Test Log (Backside)

Sampled By: ADV
 # of Samples Tested: 1
 Technician: ADV
 Time: 7:50 AM
 Date: 9/24/2013
 Temperature: 22.1 C
 Relative Humidity: 44%

Pre-Test Visual Inspection:
Pass
 Post-Test Visual Inspection:
Pass

Samples Preconditioned ☒

Card ID#	Pre-Test Visual Defects?	Card ID#	Post-Test Visual Defects?
Card S8P	No Defects	Card S8P	Slight Fading

Job Notes
 Card High Resolution Images Pre/Post ☒
 .96 W/m2 @ 420 nm
 168 Hour exposure time.

Handwritten signature and date: 9/24/13

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Junta Central Electoral

Q29924-SET8

Job #:

Card Testing for Peel Strength (Front)

Sampled By:	ADV
# of Samples Tested:	1
Technician:	ADV
Time:	12:30 AM
Date:	9/17/2013
Temperature:	22.7 C
Relative Humidity:	44%
Calibration Verified:	x
Samples Preconditioned:	x
Valid Until:	6/14

Card ID#	P1	Min Frontback
	Minimum Peel Force	
	35N/mm	
Card S&P	0.751	Front

Job Notes:

Job #: Q29924-SET8 Customer Name: Junta

Card Testing for Crosshatch Delamination (Front)

Card ID#	Scale Rating	Rating Meaning
Card 509	5	No Adhesion Pass

of Samples Tested: 1
Technician: CNJ
Time: 11:30 AM
Date: 9/16/2013
Temperature: 22.9 C
Relative Humidity: 46%

Job Notes:

[Handwritten signature]
[Handwritten date: 9/16/13]

Card Testing for Corner Impact

of Samples Tested:

1

Technician:

ADV

Time:

10:10 AM

Date:

10/2/2013

Temperature:

22.6 C

Relative Humidity:

50%

Samples Preconditioned

☒

Corner Impact Test

Card Sample of Corners

A

B

C

D

CIXX

Card ID#	CORNER A	CORNER B	CORNER C	CORNER D	Visual Note
Card S8P	N/A	N/A	Fail	Fail	Broke/Delamination

Job Notes:

Handwritten signature and date: 10/2/13

Q-CARD completed testing of cards received on August 30, 2013, against an order for nine (9) different tests. The cards were received in new condition. Cards were labeled and identified for each test by Q-CARD. All of the data in this test report pertains to the tests that were ordered.

BLANK WHITE CARDS

Test No. 1

CARD TESTING FOR ID-1 CARD FLEXURE

Per ANSI/INCITS 322:2008, Section 5.4

Card ID#	Axis	Side of Flex Extension	ANSI 440 Class	Credit Card Durability
Card 88V	B	Front Side Up	D5	Pass

PRINTED CARDS - BACK

Test No. 2

CARD TESTING FOR SURFACE ABRASION

Per ANSI/INCITS 322:2008, Section 5.9

Card ID#	Stop Cycles	ANSI 440 CLASS
Card 88P	4750	D5

Test No. 3

CARD TESTING FOR DELAMINATION CROSS HATCH TAPE

Per ANSI/INCITS 322:2008, Section 5.3

Card ID#	Scale Rating	Rating Meaning	
Card 88P	5	No Adhesion	Pass

Test No. 4

CARD TESTING FOR DAYLIGHT EXPOSURE IMAGE STABILITY-XENON ARC

Per ANSI/INCITS 322:2008, Section 5.16

Card ID#	Side Exposed	Observation	Result
Card 88P	Back	Slight Fading	Pass

Executive Summary

Tests that should be reviewed for failure assessment would be mentioned in this summary and all tests that passed 100% of the test requirements are not mentioned here. The test data for each test may be comprehensively reviewed in Annex A of this test report.

Test No. 1, card testing card flexure, indicates that the card body durability category is D5. It is my opinion the card body should be suitable for card usage applications with service life up to 10 years.

Test No. 9, card testing for corner impact resistance, indicates that two (2) out of two (2) corners tested broke and delaminated on the front clear over laminate with corner impact. This test was conducted as a sequence following Xenon arc exposure. Xenon arc exposure was applied before corner impact to accelerate the aging of plastic cards. I think this test could indicate that the card body becomes brittle with age and the test could indicate the clear front over laminate adhesion might weaken with age.

Thank you for using Q-CARD test laboratory services.

Sincerely,

Terry Schindler
Vice President – Technology Group
Q-Card Laboratories
301 Reagan Street
Sunbury, PA 17801
570-286-7447 or Mobile 570-847-4011
t.schindler@brush-qcard.com
www.q-card.com

Job #: Q29924-SET8

Card Testing for ID-1 Card Flexure

Sampled By: ADV
 # of Samples Tested: 1
 Technician: ADV
 Time: 7:45 AM
 Date: 9/16/2013
 Temperature: 21.9 C
 Relative Humidity: 48%

Samples Preconditioned: ☒
 Calibration Verified: ☒

Valid Until: 2/14

Job Notes:

Card ID#	Axis	Side of Flex Extension	Cycle to Break	Length of Fractures (mm)	Description of Fracture	ANSI 440 Class
Card 88V	B	Front Side Up	>100,000	N/A	Pass	D5

Customer Name: Junta

Job #: Q29924-SET8

Card Testing for Crosshatch Delamination (Backside)

Card ID#	Scale Rating	Rating Meaning
Card 8ap	5	No Adhesion Pass

of Samples Tested: 1

Technician: CNJ

Time: 11:30 AM

Date: 9/16/2013

Temperature: 22.9 C

Relative Humidity: 46%

Job Notes:

Customer Name: Junta Cental Electoral

Job #: Q29924-SET8

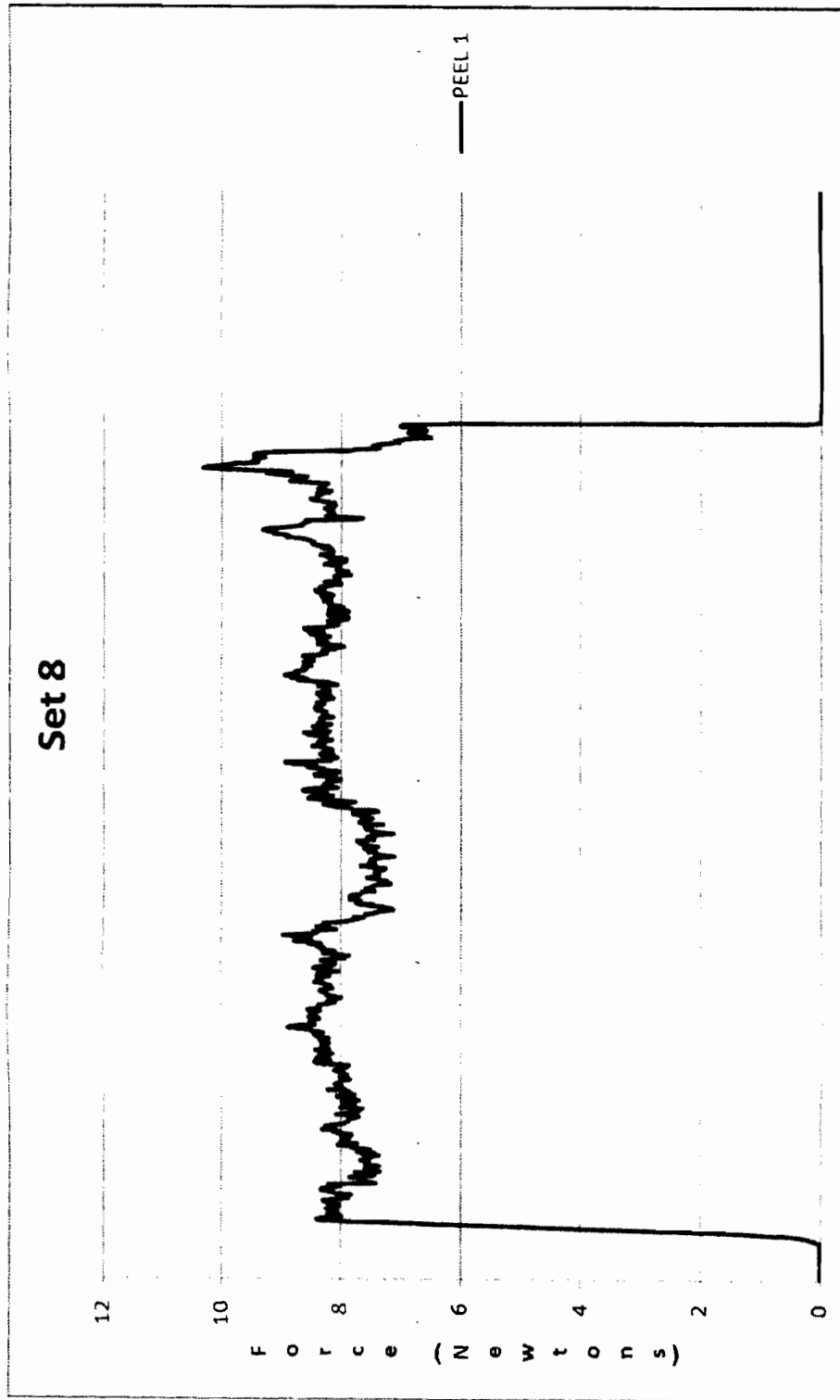
Card Testing for Surface Abrasion - Front

Sampled By: ADV
of Samples Tested: 1
Technician: ADV
Time: 12:30 PM
Date: 9/11/2013
Temperature: 24.1 C
Relative Humidity: 46%

Calibration Verified: ☒ Valid Until: 3/14

Card ID#	Stop Cycles	ANSI 440 CLASS
Card S&P	5000	D5

Job Notes:



Card Testing for Xenon Arc Test Log (Frontside)

Sampled By:

ADV

of Samples Tested:

1

Technician:

ADV

Time:

3:10 PM

Date:

10/1/2013

Temperature:

24.7 C

Relative Humidity:

49%

Samples Preconditioned

x

Card ID#	Pre-Test Visual Defects?	Card ID#	Post-Test Visual Defects?
Card S8P	No Defects	Card S8P	No Defects

Pre-Test Visual Inspection:

Pass

Post-Test Visual Inspection:

Pass

Job Notes

Card High Resolution Images Pre/Post

x

96 W/m2 @ 420 nm

168 Hour exposure time.

END PAGE